

ENTERED



OIPF

RAW SEQUENCE LISTING

DATE: 08/15/2003

PATENT APPLICATION: US/09/938,671

TIME: 14:40:44

Input Set : N:\CrF3\RULE60\09938671.raw.txt

Output Set: N:\CRF4\08152003\I938671.raw

```

1 <110> APPLICANT: Rosen et al.
2 <120> TITLE OF INVENTION: 36 Human Secreted Proteins
3 <130> FILE REFERENCE: PZ022P1
4 <140> CURRENT APPLICATION NUMBER: US/09/938,671
5 <141> CURRENT FILING DATE: 2001-08-27
6 <150> PRIOR APPLICATION NUMBER: 09/348,457
7 <151> PRIOR FILING DATE: 1999-07-07
8 <150> PRIOR APPLICATION NUMBER: 60/070,567
9 <151> PRIOR FILING DATE: 1998-01-07
10 <150> PRIOR APPLICATION NUMBER: 60/070,692
11 <151> PRIOR FILING DATE: 1998-01-07
12 <150> PRIOR APPLICATION NUMBER: 60/070,704
13 <151> PRIOR FILING DATE: 1998-01-07
14 <150> PRIOR APPLICATION NUMBER: 60/070,658
15 <151> PRIOR FILING DATE: 1998-01-07
16 <160> NUMBER OF SEQ ID NOS: 196
17 <170> SOFTWARE: PatentIn Ver. 2.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 733
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo sapiens
23 <400> SEQUENCE: 1
24      gggatccgga gcccaaattct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg      60
25      aattcgaggg tgcaccgtca gtcttctctt tcccccaaaa acccaaggac accctcatga      120
26      tctcccgga ccttgaggtc acatgcgtgg tgggtggacgt aagccacgaa gacctgagg      180
27      tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg      240
28      aggagcagta caacagcagc taccgtgtgg tcagcgtcct caccgtcctg caccaggact      300
29      ggctgaatgg caaggagtac aagtgcgaagg tctccaacaa agccctccca acccccatcg      360
30      agaaaacat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc      420
31      catcccgga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct      480
32      atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga      540
33      ccacgcctcc cgtgctggac tccgacggct ccttcttctt ctacagcaag ctcaccgtgg      600
34      acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc      660
35      acaaccacta cagcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc      720
36      gactctagag gat                                     733
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 5
40 <212> TYPE: PRT
41 <213> ORGANISM: Homo sapiens
42 <220> FEATURE:
43 <221> NAME/KEY: Site
44 <222> LOCATION: (3)
45 <223> OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/938,671

DATE: 08/15/2003

TIME: 14:40:44

Input Set : N:\Crf3\RULE60\09938671.raw.txt

Output Set: N:\CRF4\08152003\I938671.raw

```

46 <400> SEQUENCE: 2
W--> 47      Trp Ser Xaa Trp Ser
48          1          5
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 86
52 <212> TYPE: DNA
53 <213> ORGANISM: Homo sapiens
54 <400> SEQUENCE: 3
55      gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc      60
56      ccgaaatat ctgccatctc aattag      86
58 <210> SEQ ID NO: 4
59 <211> LENGTH: 27
60 <212> TYPE: DNA
61 <213> ORGANISM: Homo sapiens
62 <400> SEQUENCE: 4
63      gcggcaagct ttttgcaaag cctaggc      27
65 <210> SEQ ID NO: 5
66 <211> LENGTH: 271
67 <212> TYPE: DNA
68 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 5
70      ctcgagattt cccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg      60
71      aaatatctgc catctcaatt agtcagcaac catagtccccg cccctaactc cgcccatccc      120
72      gcccctaact ccgcccagtt ccgcccattc tccgcccacat ggctgactaa ttttttttat      180
73      ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt      240
74      ttttgagggc ctaggctttt gcaaaaagct t      271
76 <210> SEQ ID NO: 6
77 <211> LENGTH: 32
78 <212> TYPE: DNA
79 <213> ORGANISM: Homo sapiens
80 <400> SEQUENCE: 6
81      gcgctcgagg gatgacagcg atagaacccc gg      32
83 <210> SEQ ID NO: 7
84 <211> LENGTH: 31
85 <212> TYPE: DNA
86 <213> ORGANISM: Homo sapiens
87 <400> SEQUENCE: 7
88      gcgaagcttc gcgactcccc ggatccgcct c      31
90 <210> SEQ ID NO: 8
91 <211> LENGTH: 12
92 <212> TYPE: DNA
93 <213> ORGANISM: Homo sapiens
94 <400> SEQUENCE: 8
95      ggggactttc cc      12
97 <210> SEQ ID NO: 9
98 <211> LENGTH: 73
99 <212> TYPE: DNA
100 <213> ORGANISM: Homo sapiens
101 <400> SEQUENCE: 9

```

RAW SEQUENCE LISTING

DATE: 08/15/2003

PATENT APPLICATION: US/09/938,671

TIME: 14:40:44

Input Set : N:\Crf3\RULE60\09938671.raw.txt

Output Set: N:\CRF4\08152003\I938671.raw

102	gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg	60
103	ccatctcaat tag	73
105	<210> SEQ ID NO: 10	
106	<211> LENGTH: 256	
107	<212> TYPE: DNA	
108	<213> ORGANISM: Homo sapiens	
109	<400> SEQUENCE: 10	
110	ctcgagggga ctttcccggg gactttccgg ggactttccg ggactttcca tctgccatct	60
111	caattagtca gcaaccatag tcccggccct aactccgccc atcccggccc taatccgcc	120
112	cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga	180
113	ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg	240
114	cttttgcaaa aagctt	256
116	<210> SEQ ID NO: 11	
117	<211> LENGTH: 1713	
118	<212> TYPE: DNA	
119	<213> ORGANISM: Homo sapiens	
120	<400> SEQUENCE: 11	
121	ggcagagca cagataaaga taagttttac tgtcatgctg cttttaacat aacagagcaa	60
122	catcacctag gaaaaaagtt tgtaggagga tttttaatcc atatatttgt cttatggcta	120
123	gataaagatt tctctgaaaa aaagaagcat gtcaggaatc tctgggtgcc cttttttcct	180
124	ctggggactt ctagcattgt tgggcttggc tttgggtata tcaactgatct tcaatatttc	240
125	ccactatgtg gaaaagcaac gacaagataa aatgtacagc tactccagtg accacaccag	300
126	ggttgatgag tatttatattg aagacacacc aatttatggt aacttagatg atatgatttc	360
127	agaaccaatg gatgaaaatt gctatgaaca aatgaaagcc cgaccagaga aatctgtaaa	420
128	taagatgcag gaagccaccc catctgcaca ggcaaccaat gaaacacaga tgtgtctacgc	480
129	ctcacttgat cacagcgtta aggggaagcg tagaagccca ggaaacagaa tactcatttc	540
130	tcagacaagg atggagatga gcaactacat gcaatagatg ccagcgtttc taaaccacct	600
131	tagtagacag tttctccccg aaagccaggc gtagaggaaa acattcatga tgatcccac	660
132	gactgttttg attgatccgt gctaagagaa acctattaac tagctggacc atgatctgtt	720
133	caatgattgg ctccatttga agatggcttc taagaaaaca agatgcacag aggacacaga	780
134	aggacttggc agcagggtga tgacctgac atttgttgat gggatggtgg cttacctctt	840
135	attcacagct tacacttatg catgccaaat gtaaggccat gaaaatcagt atttcaaata	900
136	acttaaaaaa tgctttacta ctaaaatgta aaaaattaat gtgctcacct cggcagcaca	960
137	tatactaaaa attaataaga cccagcttga aaattgagcc tgataacaag attacaaatt	1020
138	cacaatacct aatacttagg gaaatataaa aatttaagca tgaatgtgtt ctggaacacg	1080
139	ttagaagaaa aataaaagcc aatgagtttt tttttaattc tcctttctca ccaatgggca	1140
140	atagcccata attgaaataa atttctgatt gaaagggtata ggaaacatta aaatgcatta	1200
141	ctaagagaag taatataatt ttcttacaaa gtattttttcc caaagatagc ttactattt	1260
142	caaaaattgt caaattaatg catgctcctt acaacaaaca aatatcaaaa agagttagg	1320
143	aattctacta gccagagata gtcacttggg gaaactttct atatatcctt ctaaatattt	1380
144	ttctgggcat gcttatgtat gtacatcagt tgtttctttt tattttgaac caaaaatgtg	1440
145	gtttcttttg tacacattac ttaaactttc ttccagtc acaatatatt gtggatttat	1500
146	tttactgtt atatttaact atatataaat acgcataat tgtaatttta atgtctgctt	1560
147	agcaccacac tgataaccaa atcacagttt atttaataaa ttttaatgac ttttcaaaaa	1620
148	caattttattg atgcaaaaag caagggttag atgacaatgt ttctttcaat aattaaaaaa	1680
149	tactgcttca ctgtcaaaaa aaaaaaaaaa aaa	1713
151	<210> SEQ ID NO: 12	
152	<211> LENGTH: 2062	
153	<212> TYPE: DNA	

RAW SEQUENCE LISTING

DATE: 08/15/2003

PATENT APPLICATION: US/09/938,671

TIME: 14:40:44

Input Set : N:\CrF3\RULE60\09938671.raw.txt

Output Set: N:\CRF4\08152003\I938671.raw

```

154 <213> ORGANISM: Homo sapiens
155 <220> FEATURE:
156 <221> NAME/KEY: SITE
157 <222> LOCATION: (1674)
158 <223> OTHER INFORMATION: n equals a,t,g, or c
159 <221> NAME/KEY: SITE
160 <222> LOCATION: (1699)
161 <223> OTHER INFORMATION: n equals a,t,g, or c
W--> 162 <400> 12
163   ggcagagcat taattgatat tttaatatgg atagacattg catagattca aataaattaa      60
164   aatcaatgat aaatgctaaa tattttatct aaatagtttt tcaagaaaca gttatggaaa      120
165   tgtgtatatt raatggctct aatgtggagc ttgtggtatt tcaactcagt attcattatt      180
166   agttgtgtgt ctggaaagat tgtacttact ttctctcttt acactacagt ttgctcttat      240
167   ggggctctaa actgttttaac tgaagaacct tcgtctgtat tttgattgag cataatttag      300
168   tattttatga ttccaagat gatgttctta tgtctatcaa gtctatgtat caaatattata      360
169   acatcattta agaaaaagga atttccacag atacttcagt tgcaattttt tgtttcatgc      420
170   tactgaaaat acatttgttt ctagggggtt gaattattata gaagatgtag gatgaaagaa      480
171   aacgatagaa caacgaaaga attctgttta tgaaattaca ggaattgtgt ccactatggt      540
172   aaagcattgt catttttagta cttttctct tagtagtttg gcattttata ctttaaaact      600
173   tgttttgctt taaaaattgt ttataatgct taccttcttt ctccagtgcc tttagtcttg      660
174   atttgatatg tttgtaccct cagttaccct ttctattaca tgtttttgat gttttcatag      720
175   cctaggaaac atcgattcct ttttaataat tgtcaatctg attattttaa gaggtaacaa      780
176   ttatctgtta atgcttttga aaaacaagta gggttgcctt tggaggccag gcttcttart      840
177   tcattcaaaa atattccttg gatttatgcc atgtwttaag catttttagc ccccgattt      900
178   acaactgtga accaaacgga taaggcccta accattttca gcattctctt tggatgggg      960
179   ggggattggg acttaattaa aatagagata tagaaaaata ggcattctaa taagataata      1020
180   agtgtggggt tgaaatgaag catctaaca tagttgaagt tagaagtaat attttacagt      1080
181   attgtaacct ctatttaagt ttgggtatta gttacagata gcataaaaaa gocttaattt      1140
182   ttcactttcc ttgctggcaa aggtacattt atttagactg tccattttaa gtaatgttta      1200
183   acataaacat tactgtgaaa aacattccat tacatattcc caagcaaatg agctgcattt      1260
184   tctttactgt attttacaat ttagtacaac agttttaggc ctcaatctta acatcactgg      1320
185   tattttaaat ttggcaatga atatgaaatt acttttgact tacagattga ttatattatt      1380
186   actttgaaaa tgcatttaatt tcttagaaaa gtttggagcc tctatctttt tttgagttaa      1440
187   tacttaaat ctcattactt atattaatag cctgtactaa gtgaaaatat tatttatgca      1500
188   agtaaacaa tcaactatag cttttaagac ttttctttta ttttagattt tgtcatcaaa      1560
189   gtttaaat tttacctact gtccacttrr atataattta acagtttgta aagtgaataa      1620
W--> 190   gtyttaagta tgatgtatga tgcacgggca tataatgaaa atggcggtgca caangacact      1680
191   ttactatggg aactgtacng gaagatttat gaaagcatgt gaaattgcac ctaaaattgt      1740
192   gttattagt actataagca gcaatgctaa atttattgta ctgatgaat gaatgtattt      1800
193   agtcacagtt actttggttt aaatgtataa atgtcttttag ggtttttttt taaatgtgtt      1860
194   tgtaatttgt actattgtgg gggatatactt ggactgcagg ggttattgtc aatgtgtgat      1920
195   ttgtgttttt attttataga atcatcta atgtatatacc aattttttata agtgatattt      1980
196   acataattct aataactgta tatttgacaa cctattaaaa tgttttgcatt tggaaaaaaa      2040
197   aaaaaaaaaa aaaaaactcg ta
199 <210> SEQ ID NO: 13
200 <211> LENGTH: 1224
201 <212> TYPE: DNA
202 <213> ORGANISM: Homo sapiens
203 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 08/15/2003.

PATENT APPLICATION: US/09/938,671

TIME: 14:40:44

Input Set : N:\Crf3\RULE60\09938671.raw.txt

Output Set: N:\CRF4\08152003\I938671.raw

```

204 <221> NAME/KEY: SITE
205 <222> LOCATION: (1205)
206 <223> OTHER INFORMATION: n equals a,t,g, or c
207 <400> SEQUENCE: 13
208      ggcacgaggg gactttccac agtcagctgg acgcacactc agcccagtaa aagagggggac      60
209      ccatcccggg agccccgggg agggcacagc tgccctcctcc cgggctcccc tgccacctgg      120
210      tgccctacct cccctgtctc cctgccgggt ccggtcctca ccccatcttc atctggcctt      180
211      gactctgccc ttgagggggc taggggtgca gccagcctgc tccgagctcc cctgcagatg      240
212      gaggaggcca tcctgggtccc ctgctgtgtg gggctcctgc tgctgccccat cctggccatg      300
213      ttgatggcac tgtgtgtgca ctgccacaga ctgccaggct cctacgacag cacatcctca      360
214      gatagtttgt atccaaaggg gcatccagtt caaacggcct cacacggttg cccctgggcc      420
215      acctgcctac ccacctgtca cctcctaccc acccctgagc cagccagacc tgctcccat      480
216      cccaagatcc ccgcagcccc ttgggggctc ccaccggacg ccatcttccc ggcgggattc      540
217      tgatggtgcc aacagtgtgg cgagctacga aacgaggaac cagcctgtga ggatgcggat      600
218      gagatgagga cgactatcac aaccaggct acctggtggt gcttcttgac agcaccccg      660
219      ccactacact gctgccccat cagctcctgc actcagcacc cctggcatcc gagacagtgc      720
220      cttctccatg gagtccattg atgattacgt gaacgttccg gagagcgggg agagcgcaga      780
221      agcgtctctg gatggcagcc gggagtatgt gaatgtgtcc caggaactgc atcctggagc      840
222      ggctaagact gagcctgccg ccctgagttc ccaggaggca gaggaagtgg aggaagaggg      900
223      ggctccagat tacgagaatc tgcaaggagct gaactgaggg cctgtggagg ccgagtctgt      960
224      cctggaacca ggcttgccctg ggacggctga gctgggcagc tggaagtggc tctgggggtc      1020
225      tcacatggcg tcctgccctt gctccagcct gacaacagcc tgagaaatcc ccccgtaact      1080
226      tattatcact ttgggggttcg gcctgtgccc ccgaacgctc tgaccttctg acgcagcctg      1140
227      agaatgacct gcctggcccc agccctactc tggtaatata ataaaggcct gcgtgtgtct      1200
W--> 228      gtgtnaaaaa aaaaaaaaaa aaaa      1224
230 <210> SEQ ID NO: 14
231 <211> LENGTH: 1621
232 <212> TYPE: DNA
233 <213> ORGANISM: Homo sapiens
234 <220> FEATURE:
235 <221> NAME/KEY: SITE
236 <222> LOCATION: (1596)
237 <223> OTHER INFORMATION: n equals a,t,g, or c
238 <221> NAME/KEY: SITE
239 <222> LOCATION: (1607)
240 <223> OTHER INFORMATION: n equals a,t,g, or c
W--> 241 <221> SITE
242 <222> LOCATION: (1616)
243 <223> OTHER INFORMATION: n equals a,t,g, or c
W--> 244 <400> 14
245      gggcaaccct gccattctcc cctccagtgg aagattctac tttattcagg aaggctgggtg      60
246      gcttgacagg gctaggctta cacaagccag ccaagattga gaaggtaggg gagtgccttc      120
247      aatggaggcc atagtgttca tcttttcttc tgagcaggct ctaggacaaa caatgagcaa      180
248      attgagatgt cctgtattgg gaggatgagg ctgatattgt tcatcattct cagaatttgt      240
249      gggctagagc acctttttgg gaatatgggc ctagggraaa agaacgggtca cttacctgga      300
250      cactatggcc atagtcttga gtttttctag tcagcatgtg attggttgta ccttaagttt      360
251      atgmcaacaa aaatactatt aactctgtta tttttgttct taatcccatc tcaaattagt      420
252      ttctagagtt agaatcagaa cacaaggatg ctcatcttca catggaggga aagttgccaa      480
253      agcattttaa aaataacccc aaaagtatat ctagcagtga agcttggtag ataaaggtga      540

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/938,671

DATE: 08/15/2003
TIME: 14:40:45

Input Set : N:\Crf3\RULE60\09938671.raw.txt
Output Set: N:\CRF4\08152003\I938671.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 3
Seq#:12; N Pos. 1674,1699
Seq#:13; N Pos. 1205
Seq#:14; N Pos. 1596,1607,1616
Seq#:16; N Pos. 55,110
Seq#:19; N Pos. 602,603,606,607,608
Seq#:21; N Pos. 540
Seq#:24; N Pos. 146,525,2196,2254,2256,2274
Seq#:32; N Pos. 32,772,829
Seq#:34; N Pos. 85
Seq#:36; N Pos. 607
Seq#:37; N Pos. 34
Seq#:39; N Pos. 1246,1846
Seq#:44; N Pos. 2755,2849,2919,2983,2987,2998,3027
Seq#:46; N Pos. 1240
Seq#:47; N Pos. 893,895,905,911
Seq#:50; N Pos. 2278,2290
Seq#:56; Xaa Pos. 143
Seq#:57; Xaa Pos. 51
Seq#:58; Xaa Pos. 102
Seq#:59; Xaa Pos. 31,48
Seq#:60; Xaa Pos. 98
Seq#:61; Xaa Pos. 52
Seq#:62; Xaa Pos. 52
Seq#:64; Xaa Pos. 42
Seq#:66; Xaa Pos. 58
Seq#:68; Xaa Pos. 74
Seq#:70; Xaa Pos. 46
Seq#:71; Xaa Pos. 64
Seq#:72; Xaa Pos. 48
Seq#:73; Xaa Pos. 49
Seq#:74; Xaa Pos. 47
Seq#:75; Xaa Pos. 59
Seq#:77; Xaa Pos. 44
Seq#:78; Xaa Pos. 48
Seq#:79; Xaa Pos. 210
Seq#:80; Xaa Pos. 48
Seq#:81; Xaa Pos. 48
Seq#:83; Xaa Pos. 89
Seq#:84; Xaa Pos. 161,212,213,215,216,218,221,250
Seq#:85; Xaa Pos. 58
Seq#:86; Xaa Pos. 49
Seq#:87; Xaa Pos. 170
Seq#:88; Xaa Pos. 174

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/938,671DATE: 08/15/2003
TIME: 14:40:45Input Set : N:\Crf3\RULE60\09938671.raw.txt
Output Set: N:\CRF4\08152003\I938671.raw

Seq#:89; Xaa Pos. 275
Seq#:90; Xaa Pos. 83
Seq#:91; Xaa Pos. 99,212
Seq#:92; Xaa Pos. 41
Seq#:93; Xaa Pos. 49
Seq#:94; Xaa Pos. 90
Seq#:96; Xaa Pos. 60

Invalid Line Length:**The rules require that a line not exceed 72 characters in length. This includes spaces.**

Seq#:1; Line(s) 24,25,26,27,28,29,30,31,32,33,34,35,36
Seq#:2; Line(s) 45
Seq#:3; Line(s) 55,56
Seq#:4; Line(s) 63
Seq#:5; Line(s) 70,71,72,73,74
Seq#:6; Line(s) 81
Seq#:7; Line(s) 88
Seq#:8; Line(s) 95
Seq#:9; Line(s) 102,103
Seq#:10; Line(s) 110,111,112,113,114
Seq#:11; Line(s) 121,122,123,124,125,126,127,128,129,130,131,132,133,134
Seq#:11; Line(s) 135,136,137,138,139,140,141,142,143,144,145,146,147,148
Seq#:11; Line(s) 149
Seq#:12; Line(s) 163,164,165,166,167,168,169,170,171,172,173,174,175,176
Seq#:12; Line(s) 177,178,179,180,181,182,183,184,185,186,187,188,189,190
Seq#:12; Line(s) 191,192,193,194,195,196,197
Seq#:13; Line(s) 208,209,210,211,212,213,214,215,216,217,218,219,220,221
Seq#:13; Line(s) 222,223,224,225,226,227,228
Seq#:14; Line(s) 245,246,247,248,249,250,251,252,253,254,255,256,257,258
Seq#:14; Line(s) 259,260,261,262,263,264,265,266,267,268,269,270,271,272
Seq#:15; Line(s) 279,280,281,282,283,284,285,286,287,288,289,290,291,292
Seq#:15; Line(s) 293,294,295,296,297,298,299,300,301,302
Seq#:16; Line(s) 316,317,318,319,320,321,322,323,324,325,326,327,328,329
Seq#:16; Line(s) 330,331,332,333
Seq#:17; Line(s) 340,341,342,343,344,345,346,347,348,349,350,351,352,353
Seq#:17; Line(s) 354
Seq#:18; Line(s) 361,362,363,364,365,366,367,368,369,370,371,372,373,374
Seq#:18; Line(s) 375
Seq#:19; Line(s) 398,399,400,401,402,403,404,405,406,407,408
Seq#:20; Line(s) 415,416,417,418,419,420,421,422,423,424
Seq#:21; Line(s) 435,436,437,438,439,440,441,442,443,444,445,446,447,448
Seq#:21; Line(s) 449,450,451,452,453,454,455,456,457,458,459,460,461,462
Seq#:21; Line(s) 463,464,465,466,467,468
Seq#:22; Line(s) 475,476,477,478,479,480,481,482,483,484
Seq#:23; Line(s) 491,492,493,494,495,496,497,498,499,500,501,502,503,504
Seq#:23; Line(s) 505,506,507,508,509,510
Seq#:24; Line(s) 536,537,538,539,540,541,542,543,544,545,546,547,548,549

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/938,671

DATE: 08/15/2003
TIME: 14:40:45

Input Set : N:\Crif3\RULE60\09938671.raw.txt
Output Set: N:\CRF4\08152003\I938671.raw

Seq#:24; Line(s) 550,551,552,553,554,555,556,557,558,559,560,561,562,563
Seq#:24; Line(s) 564,565,566,567,568,569,570,571,572,573,574
Seq#:25; Line(s) 581,582,583,584,585,586,587,588,589,590,591,592,593,594
Seq#:25; Line(s) 595
Seq#:26; Line(s) 602,603,604,605,606,607,608,609
Seq#:27; Line(s) 616,617,618,619,620,621,622,623,624,625,626,627,628,629
Seq#:28; Line(s) 636,637,638,639,640,641,642,643
Seq#:29; Line(s) 650,651,652,653,654,655,656,657,658,659,660,661,662,663
Seq#:29; Line(s) 664,665,666,667,668,669,670,671,672
Seq#:30; Line(s) 679,680,681,682,683,684,685,686,687,688,689
Seq#:31; Line(s) 696,697,698,699,700,701,702,703,704,705,706,707,708,709
Seq#:31; Line(s) 710,711,712,713,714,715,716
Seq#:32; Line(s) 733,734,735,736,737,738,739,740,741,742,743,744,745,746
Seq#:33; Line(s) 753,754,755,756,757,758,759,760,761,762,763,764,765,766

VERIFICATION SUMMARY

DATE: 08/15/2003

PATENT APPLICATION: US/09/938,671

TIME: 14:40:45

Input Set : N:\Crf3\RULE60\09938671.raw.txt

Output Set: N:\CRF4\08152003\I938671.raw

L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:162 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:12
L:190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:1620
M:341 Repeated in SeqNo=12
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:1200
L:241 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:244 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:14
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:1560
L:315 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:16
L:316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
M:341 Repeated in SeqNo=16
L:388 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:391 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:394 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:397 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:19
L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:600
L:443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:480
L:523 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:526 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:529 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:532 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:535 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24
L:538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:120
M:341 Repeated in SeqNo=24
L:729 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:732 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:32
L:733 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
M:341 Repeated in SeqNo=32
L:787 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:60
L:862 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:600
L:874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:940 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:39
L:961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:1200
M:341 Repeated in SeqNo=39
L:1115 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:1118 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:1121 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:1124 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:1127 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:1130 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:44
L:1176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:2700
M:341 Repeated in SeqNo=44
L:1236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:1200
L:1249 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47
L:1252 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47
L:1255 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:47
L:1270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:840
M:341 Repeated in SeqNo=47

VERIFICATION SUMMARY

DATE: 08/15/2003

PATENT APPLICATION: US/09/938,671

TIME: 14:40:45

Input Set : N:\Crf3\RULE60\09938671.raw.txt

Output Set: N:\CRF4\08152003\I938671.raw

L:1346 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:50
L:1384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:2220
M:341 Repeated in SeqNo=50
L:1560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:128
L:1578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:48
L:1602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:96
L:1616 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:59
L:1619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:16
M:341 Repeated in SeqNo=59
L:1645 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:96
L:1662 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:48
L:1680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:48
L:1712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:32
L:1760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:48
L:1800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:64
L:1840 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:32
L:1858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:48
L:1874 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:32
L:1892 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:48
L:1907 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:32
L:1925 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:48
L:1987 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:77 after pos.:32
L:2003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:78 after pos.:32
L:2041 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:208
L:2095 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:80 after pos.:32
L:2111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:32
L:2177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:80
L:2191 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2194 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2197 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2200 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2203 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2206 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2209 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:84
L:2230 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:84 after pos.:160
M:341 Repeated in SeqNo=84
L:2420 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:91
L:3986 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185
L:3989 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185
L:3992 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185
L:3995 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185
L:3998 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185
L:4001 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:185

STATISTICS SUMMARY

DATE: 08/15/2003

PATENT APPLICATION: US/09/938,671

TIME: 14:40:45

Input Set : N:\Crf3\RULE60\09938671.raw.txt

Output Set: N:\CRF4\08152003\I938671.raw

Application Serial Number: US/09/938,671

Alpha or Numeric or Xml: Numeric

Application Class:

Application File Date: 08-27-2001

Art Unit: OIPE

Software Application: PatentIN2.0

Total Number of Sequences: 196

Total Nucleotides: 60531

Total Amino Acids: 12201

Number of Errors: 0

Number of Warnings: 120

Number of Corrections: 0

MESSAGE SUMMARY

258 W: 41 (Mandatory Feature missing)

341 W: 79 ((46) "n" or "Xaa" used)